

## **BUILDING PRODUCTS LISTING PROGRAM**

Class: Foam Plastic Insulation  
Customer: Preferred Solutions, Inc.  
Location: 7918 Broadview Rd., Cleveland, OH, 44131  
Listing No. B1020  
Project No. B1020-1 Edition 7  
Effective Date: June 14, 2021  
Expires: <N/A>

Standards: ASTM E84 *Standard Test Method for Surface Burning Characteristics of Building Materials*  
UL 1715 *Fire Test of Interior Finish Material.*

Product: Preferred Solutions spray-applied polyurethane foam plastic insulation of the following models:

- Staycell ONE STEP® 255 spray applied polyurethane foam insulation.
- Staycell® 265 spray applied polyurethane foam insulation.
- Staycell ONE STEP® 502 intumescent, spray applied polyurethane foam insulation.
- Staycell ONE STEP® 502 intumescent, spray applied polyurethane foam insulation.
- Staycell® 503 spray applied polyurethane foam insulation.
- Staycell® 504 spray applied polyurethane foam insulation.
- Staycell® 505 spray applied polyurethane foam insulation.
- Staycell® 506 spray applied polyurethane foam insulation.
- Staycell® 265 Hybrid spray applied polyurethane foam insulation.
- Staycell® 504 Hybrid spray applied polyurethane foam insulation.
- Staycell® 505 Hybrid spray applied polyurethane foam insulation.
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Markings: Product containers are marked with the following:

- Manufacturer's Name or Trademark or other recognized symbol of identification.
- Model Designation
- Month and Year of Manufacture or equivalent
- Flame spread and smoke developed ratings per ASTM E84.
- QAI logo including Listing File Number shown below.



QAI File: B1020-1

Models / Ratings: The following outlines surface burning characteristic ratings for Preferred Solutions spray-applied polyurethane foam plastic insulation per ASTM E84:

PRODUCT	DENSITY (lbs/ft <sup>3</sup> )	MAX THICKNESS (inches)	FLAME SPREAD INDEX (FSI)	SMOKE DEVELOPED INDEX (SDI)
Staycell ONE STEP® 255	≤ 2.20	≤ 4	≤ 25	≤ 450
Staycell® 265	≤ 2.20	≤ 4	≤ 25	≤ 450
Staycell ONE STEP® 502	≤ 2.4	≤ 4	≤ 25	≤ 450
Staycell® 503	≤ 1.9	≤ 4	≤ 25	≤ 450
Staycell® 504	≤ 2.2	≤ 4	≤ 25	≤ 450
Staycell® 505	≤ 0.55	≤ 4	≤ 25	≤ 450
Staycell® 506	≤ 2.2	≤ 4	≤ 25	≤ 450

The following outlines Preferred Solutions compliant assemblies for use without a code prescribed thermal barrier per evaluation to UL 1715<sup>1</sup>:

PRODUCT	DENSITY (lbs/ft <sup>3</sup> )	MAX THICKNESS (inches)	INSTALLATION
Staycell ONE STEP® 255	≤ 2.20	≤ 4	Walls Only
Staycell ONE STEP® 255	≤ 2.20	≤ 8	Roofs or Ceilings Only
Staycell ONE STEP® 502	≤ 2.40	≤ 4	Walls Only
Staycell ONE STEP® 502	≤ 2.40	≤ 8 ½	Roofs or Ceilings Only
Staycell® 265 Hybrid System	Base: Staycell® 265	≤ 2.20	Walls Only, with maximum installed thickness of 5 inches for hybrid system.
	Covering: Staycell® 255	≤ 2.20	
Staycell® 265 Hybrid System	Base: Staycell® 265	≤ 2.20	Roofs or Ceilings Only, with maximum installed thickness of 8 ½ inches for hybrid system.
	Covering: Staycell® 255	≤ 2.20	
Staycell ONE STEP® 504 Hybrid System	Base: Staycell® 504	≤ 2.20	Walls Only, with maximum installed thickness of 4 inches for Hybrid System
	Covering: Staycell ONE STEP® 502	≤ 2.4	
Staycell ONE STEP® 504 Hybrid System	Base: Staycell® 504	≤ 2.20	Roofs or Ceilings with maximum installed thickness of 8 ½ inches for Hybrid System
	Covering: Staycell ONE STEP® 502	≤ 2.4	
Staycell® 505 Hybrid System	Base: Staycell® 505	≤ 0.55	Walls: ≤ 8" Staycell® 505 covered with minimum 26 Gauge steel. Roofs and Ceilings: ≤ 7-½" Staycell® 505 covered with ≥ ½" Staycell® ONE STEP 502 with maximum installed thickness of 8 inches for Hybrid System
	Covering: Staycell ONE STEP® 502	≤ 2.4	

Notes: *All products are spray applied using a pump system.*  
*<sup>1</sup>UL 1715 tested assemblies were evaluated exposed without a thermal barrier or ignition barrier separating the insulation from the fire exposure.*

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